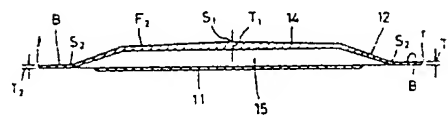
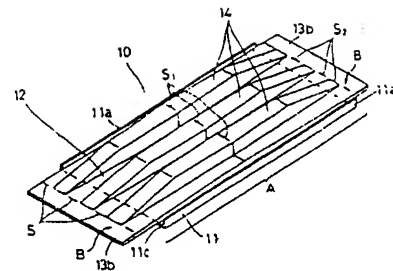


(54) DOOR GUARD BAR FOR AUTOMOBILE
(11) 1-240322 (A) (43) 25.9.1989 (19) JP
(21) Appl. No. 63-67809 (22) 22.3.1988
(71) DAIWA KOGYO K.K. (72) MAKOTO OBINATA
(51) Int. Cl. B60J5/04

PURPOSE: To reduce parts and spot-welding in number, and thereby contrive an reduction in weight and the like by forming a guard bar main body provided with reinforcing beads in such a way that the center peripheral section of it in the longitudinal section of a car body is made thicker than the front and rear peripheral section of it.

CONSTITUTION: A door guard bar 10 is composed of a reinforcing member 11 and of a guard main body 12. In this case, the upper and lower ends 11a of the reinforcing member 11 are bent toward the side of a car body so as to let a guard main body 12 be spot-welded onto the projected surface of the member so that the front and rear sections 11c of the member are firmly fixed on a side door. On the other hand, the guard bar main body 12 is formed with a smooth connecting surface against the reinforcing member 11 by forming a rectangular panel with a press, and the back of the connecting surface is concurrently formed into a reinforcing surface F_2 . And in the rectangular panel, the thickness T_1 of the ridge S_1 at the center section and the peripheral section of it is set to be greater than the thickness T_2 of the both end sections of it. In addition, the guard bar main body 12 allows numbers of reinforcing beads 14 to be projected while being extended in the longer direction.



B ... 前後端部周辺部位

T₁ ... 中央周辺部の肉厚

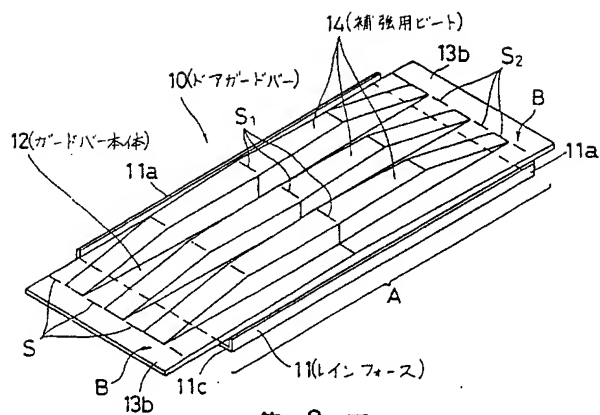
T₂ ... 前後両端部の肉厚

出願人 大和工業株式会社

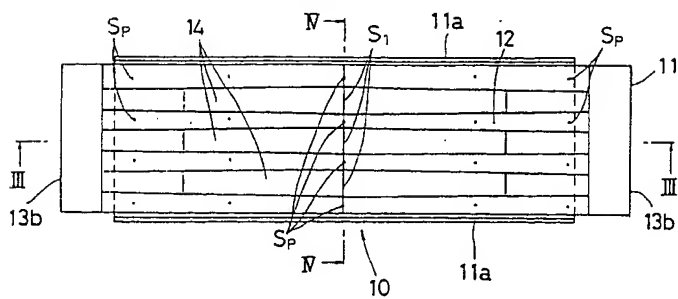
代理人 弁理士 西脇 民雄

-11-

第 1 図



第 2 図



THICK/THIN
PORTIONS
T T

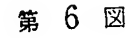
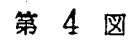
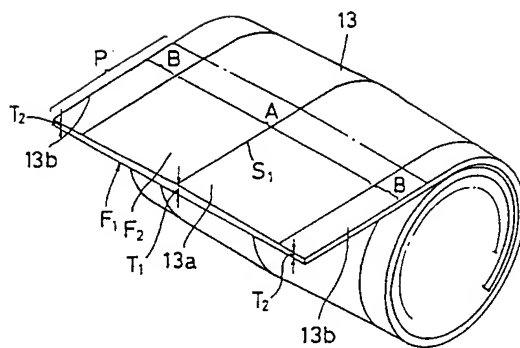
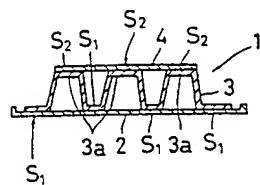
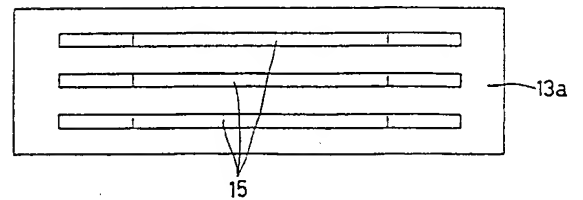


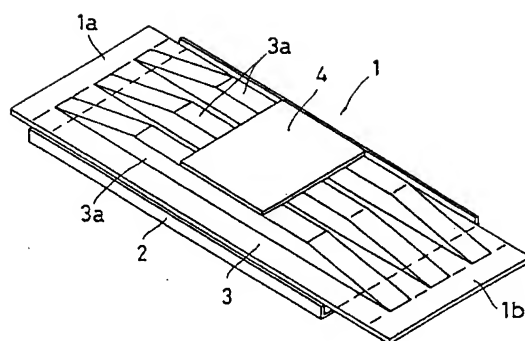
FIG. 1 is a perspective view of a first embodiment of a device. It shows a rectangular plate 13a with a series of parallel longitudinal slots. A force F_1 is applied to the top surface, and a point 15 is marked on the top surface.



第 7 図



第 8 図



第 9 図

